REASON

- **To use TWGSS to its full potential, you must properly prepare the tank for TWGSS training.**

TRAINING OBJECTIVE

- **Given an operational M1A2 tank with BII, eye-safe laser filter installed, and a muzzle boresight device, you will perform the following tasks:**

  - · **Conduct prepare-to-fire checks**
  - · **Boresight tank**
  - · **Update automatic and manual inputs**
  - · **Prepare tank-specific equipment**

AUTOMATIC AND MANUAL INPUTS

- **Ammunition temperature 70 F**
- **Barometric pressure 29.92**
- **Air temperature 59 F**
- **Set crosswind to 0 and select MANUAL**
- **CANT sensor to AUTO position**
- **LEAD sensor to ON position**
- **RANGE to NORMAL operation**
- **PITCH/ROLL to ON position**
- **HULL/TURRET (H/T) sensor to ON position**
- **HULL/TURRET alignment verified**

AUTOMATIC AND MANUAL INPUTS

AMMUNITION	SUBDES	AZ	EL
· HEAT	M830	-0.25 L	+0.37 D
· SABOT	M829A1	0.0	-0.45 U

COAX GCDP INPUTS

- **Set coax boresight values equal to main gun boresight values**

- **Set coax zero to AZ = 0.0 and EL = 0.0**

PREPARATION OF TANK-SPECIFIC EQUIPMENT

- Position main gun over right No. 2 road wheel
- Secure elevation lock and engage turret traverse lock
- Gun/turret drive switch to MANUAL
- Turret utility power switch OFF
- Vehicle master power switch and turret power switch OFF
- Inspect and clean muzzle
- Inspect and clean GAS optical port
- Remove loader´s hatch periscope
- Remove FCEU protective guard
- Adjust load plan (if needed)

SUMMARY

- **Pre/post firing checks**
- **Boresight FCS**
- **Update GCDP**
- **Prepare tank-specific equipment**

CLOSING STATEMENT

- **To get the desired training result from TWGSS, you must first properly prepare the tank.**